

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

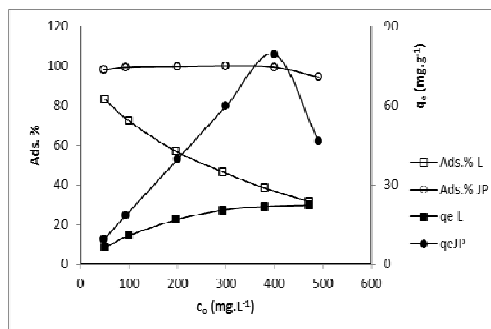
Tome 59, N^{os} 3-4

Mars-Avril 2014

PAPERS

Zuzana MELICHOVÁ, Ladislav HROMADA
and Andrea LUPTÁKOVÁ

Removal of Pb²⁺ ions from aqueous solutions
by Slovak bentonites

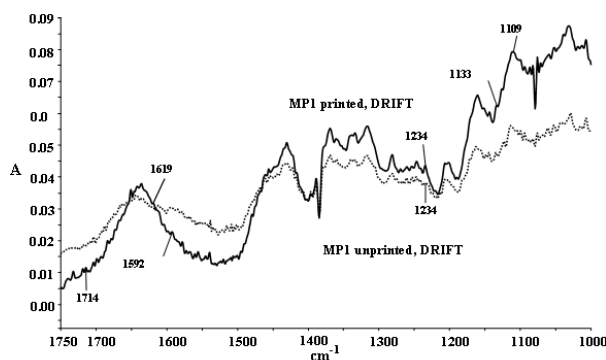


Rev. Roum. Chim., 2014, 59(3-4), 165-171

Key words: adsorption, bentonite, lead.

Sanda-Maria DONCEA and
Rodica-Mariana ION

FTIR (DRIFT) analysis of some printing inks
from the 19th and 20th centuries

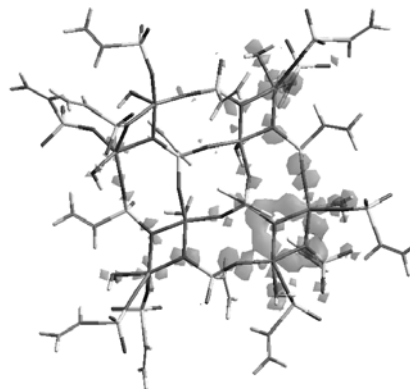


Rev. Roum. Chim., 2014, 59(3-4), 173-183

Key words: FTIR (DRIFT), inks, paper documents, 19th-20th centuries.

Aurelia VISA, Bianca MARANESCU,
Mircea MRACEC

Electronic properties of Cu²⁺ vinylphosphonate
estimated by PM3 semiempirical method

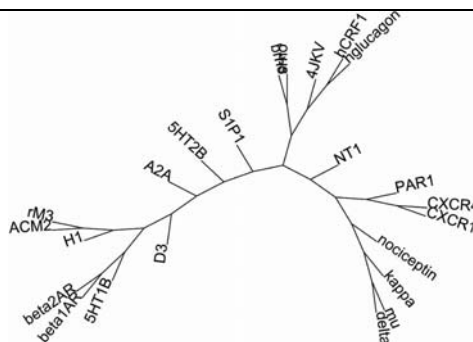


Key words: metal organic frameworks, PM3 semi-empirical,
vinylphosphonates, structural properties, electric properties.

Rev. Roum. Chim., 2014, 59(3-4), 185-191

Liliana OSTOPOVICI-HALIP

Template structure selection for comparative modeling of orphan G-protein coupled receptors

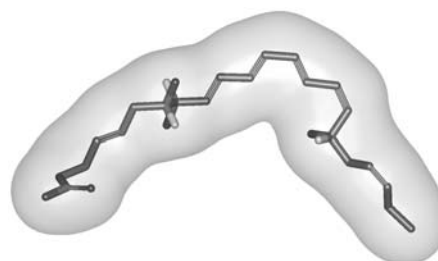


Rev. Roum. Chim., 2014, 59(3-4), 193-199

Key words: GPCRs, homology modeling, template selection.

Liliana OSTOPOVICI-HALIP

Approaches to G-protein coupled receptors deorphanization: the GPR32 case study

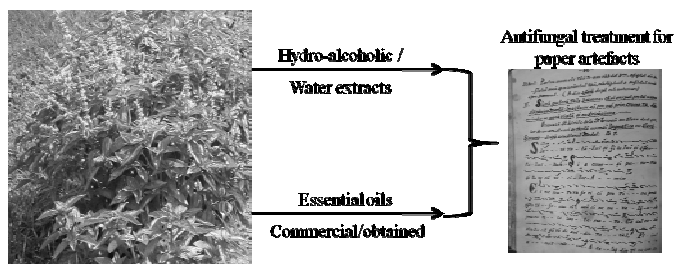


Rev. Roum. Chim., 2014, 59(3-4), 201-205

Key words: GPR32, orphan GPCR, resolvins.

Irina FIERASCU, Rodica Mariana ION, Mihai RADU, Stefan Ovidiu DIMA, Ioana Raluca BUNGHEZ, Sorin Marius AVRAMESCU and Radu Claudiu FIERASCU

Comparative study of antifungal effect of natural extracts and essential oils of *Ocimum basilicum* on selected artefacts

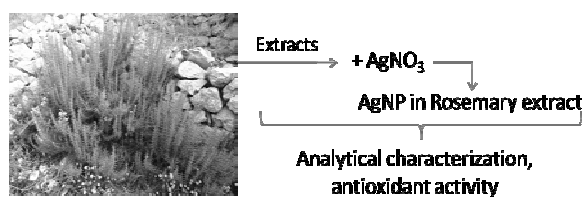


Rev. Roum. Chim., 2014, 59(3-4), 207-211

Key words: *Ocimum basilicum*, essential oil, antifungal effect, artefacts.

Radu Claudiu FIERASCU, Ioana Raluca BUNGHEZ, Raluca SOMOGHI, Irina FIERASCU and Rodica Mariana ION

Characterization of silver nanoparticles obtained by using *Rosmarinus officinalis* extract and their antioxidant activity

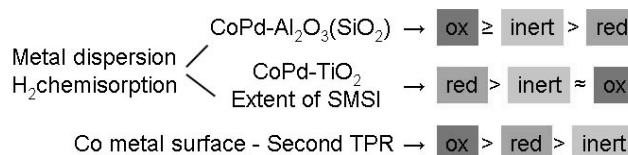


Rev. Roum. Chim., 2014, 59(3-4), 213-218

Key words: green synthesis, silver nanoparticles, *Rosmarinus officinalis*, antioxidant activity.

Maya SHOPSKA, Georgi KADINOV and Iskra SHTEREVA

Determination of metal dispersion in cobalt-palladium catalysts

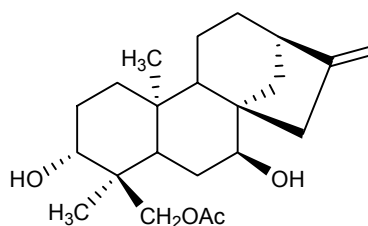


Key words: metal dispersion of Co-Pd catalysts, hydrogen chemisorption, temperature-programmed reduction, X-ray photoelectron spectroscopy, diffuse-reflectance infrared spectroscopy.

Rev. Roum. Chim., 2014, 59(3-4), 219-225

Selvihan CITAK, Zuleyha OZER SAGIR,
Sema CARIKCI, Turgut KILIC and
Akın AZIZOGLU

Experimental and theoretical study on linearol
isolated from *Sideritis* species

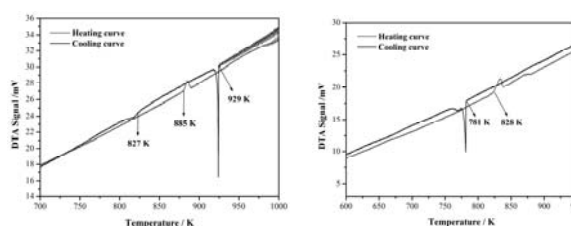


Rev. Roum. Chim., 2014, 59(3-4), 227-234

Key words: diterpene, DFT, ab-initio, NMR.

Kledi XHAXHIU, Teodor KOTA,
Arjan XHELAJ and Hans-Jörg DEISEROTH

Thermal behavior and decomposition of mixed
valence solids $\text{In}_5\text{Ch}_3\text{Cl}$ (Ch = S, Se)

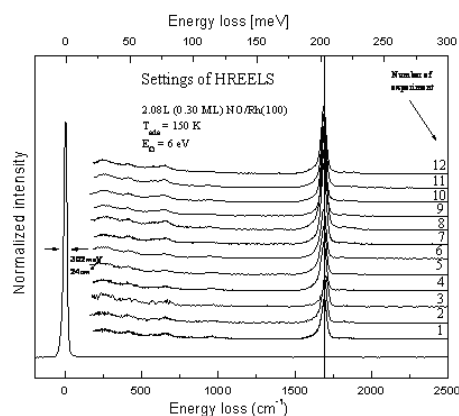


Rev. Roum. Chim., 2014, 59(3-4), 235-243

Key words: thermal behaviour, XRD, DTA, isostructural compounds.

Adelaida ANDONI

High resolution electron energy loss spectroscopy
for studying planar model catalyst: a test of NO
on Rh(100)

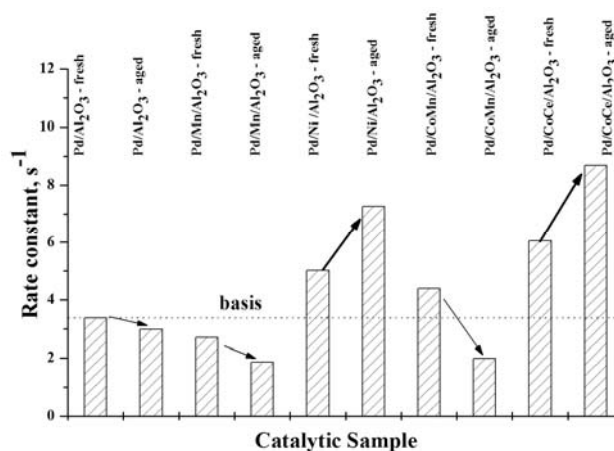


Rev. Roum. Chim., 2014, 59(3-4), 245-249

Key words: high resolution electron energy loss spectroscopy, NO adsorption, Rh catalyst.

Silviya TODOROVA, Plamen STEFANOV,
Anton NAYDENOV and Hristo KOLEV

Catalytic oxidation of methane over
Pd-MeOx (Me = Mn, Co, Ni, Ce) catalysts –
influence of metal oxides

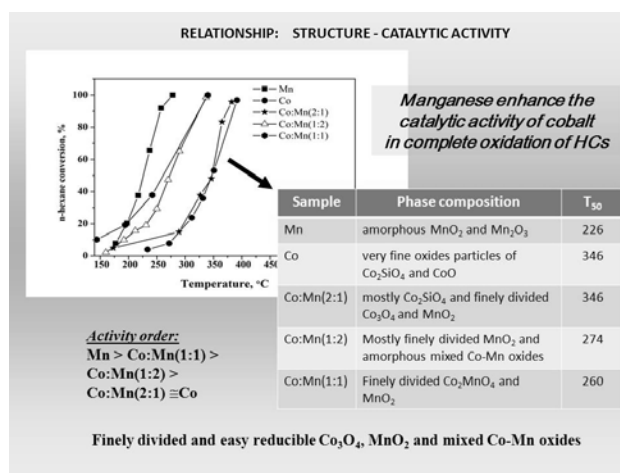


Rev. Roum. Chim., 2014, 59(3-4), 251-257

Key words: methane combustion, palladium, Co-Ce, Co-Mn mixed oxides, nickel oxides, cobalt oxide, promotion effect.

Silviya TODOROVA, Iliyana YORDANOVA,
Anton NAYDENOV, Hristo KOLEV,
Zara CHERKEZOVA-ZHELEV,
Krasimir TENCHEV and Boris KUNEV

Cobalt-manganese supported oxides as catalysts
for complete *n*-hexane and methane oxidation:
relationship between structure and catalytic activity

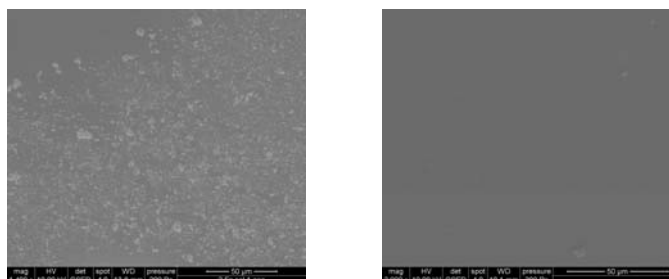


Key words: complete oxidation, *n*-hexane, methane, Co – Mn oxides, supported catalysts.

Rev. Roum. Chim., 2014, 59(3-4), 259-265

Oana Catalina MOCIOIU, Irina ATKINSON,
Jeanina PANDELE, Lucica BOROICA,
Bogdan SAVA, Ana Maria MOCIOIU and
Maria ZAHARESCU

Protective coatings for the silicate glasses
containing Fe₂O₃

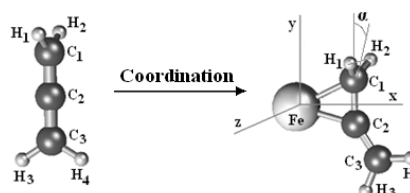


Key words: historical glasses preservation, sol-gel film, structure, morphology, water stability test.

Rev. Roum. Chim., 2014, 59(3-4), 267-272

Natalia GORINCHOY

Jahn-Teller and pseudo Jahn-Teller origin
of structural distortions of coordinated molecules



Key words: Jahn-Teller effects, weak coordinated systems, stereochemistry, formaldehyde, allene.

Rev. Roum. Chim., 2014, 59(3-4), 273-280